Tyler McCarthy

Mccartty@mail.gvsu.edu
616-264-0770

Linkedin.com/in/point01
github.com/point01

Objectives

Seeking full time software development positions in the San Francisco Bay Area, especially those focusing on Web, Android development, security engineering, and VR applications development in Unity or Unreal Engine.

Skills & Experience

Programming Languages:

Strong: Python, Java, C, C#, BASH scripting
Some exposure: Ruby, Haskell, Common Lisp
Learning: C++, OpenGL & GLSL

Operating systems:
- Extensive Linux (Arch Linux, CentOS, Ubuntu & others)
- Windows 7, 8.1 & 10

Programs & Environments:
- Android Studio, Eclipse, Visual Studio
- Unity 5, Unreal Engine 4.5

B.S., Computer Science

Grand Valley State University Dec. 2015

Technologies :
- Apache Thrift, Apache Tika
- Docker, Amazon Web Services mgmt.
- Redis, SQLite, General SQL/DB concepts

Security Related :
- Practical cryptography usage
- Excellent grasp of networking
- Pentesting suites (Metasploit, Armitage)
- Windows/Linux software Firewall

Recent Projects

- Self-teaching Android 6.0 (Udemy course, several apps) Github.com/point01/android_course
- Square Wars game - GVSU capstone project in Unity (C#) Github.com/point01/square-wars
- Atomic Games Hackathon - Othello game AI (Python) Github.com/point01/atomic-othello
- Unreal Engine 4.5 for Virtual Reality Udemy course (C++) Github.com/point01/unreal_course

Employment

Edmodo - San Mateo, CA (Internship, 15 wks) May - Aug 2015
- Designed, Dockerized, deployed to AWS a service that analyzes hundreds of user content submissions per minute in arbitrary textual format, e.g. .epub, .pdf, .docx (using Python, Flask, Apache Tika)
- Devised, wrote, deployed to AWS an improved rate limiting service (using Python, Thrift, Docker, Redis)
- Fixed security issues in PHP backend, built tools to automatically detect & fix mixed content
- Light DevOps work in Amazon Web Services

Grand Valley Surplus Store - Grand Rapids, MI Jun - Sep 2014
- Managed FOG disk imaging server, tested hardware, repaired computers & periphery
- Directly aided customers at checkout & on floor during sales

Voluntarism & Student Organizations

Computer Security Team - Grand Valley (Leader/Teammate) 2013 - 2014
- Team leader, 2013-2014 school year: organized meetings, researched & taught skills
- Competitor: 2014 Michigan Collegiate Cyber Defense Competition

Student Environmental Coalition - Grand Valley (Treasurer) Sep - Dec 2013
- Balanced budget; wrote & presented funding requests, helped organize service events
- Secured 100% of funding for Powershift conference travel (20 student attendees)

Center For Inquiry – Grand Valley (Service Coordinator, Treasurer, Vice President) 2011 - 2013
- Helped coordinate & execute public speech by Dr. Neil deGrasse Tyson (4,000 attendees)

GVSU Fencing club - GVSU Computing Club - GVSU Backpacking Club - ACM Member
Multimedia artist - Outdoorsman - Electronic Music Junkie - Amateur Game Developer